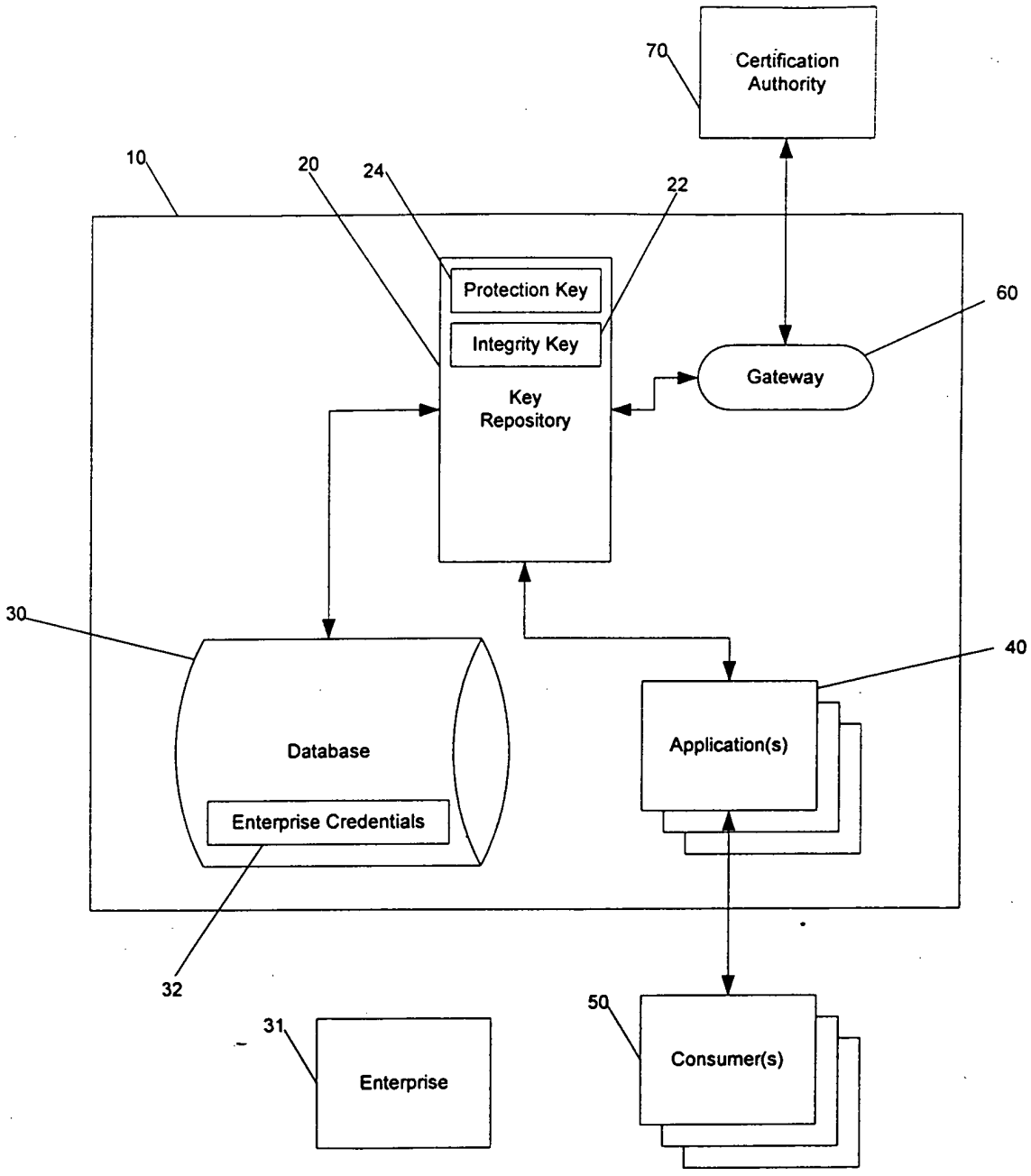
70
Certification Authority
10
20
24
22
Protection Key
Integrity Key
Key Repository
60
Gateway
30
Database
Enterprise Credentials
40
Application(s)
32
31
Enterprise
50
Consumer(s)

Figure 1

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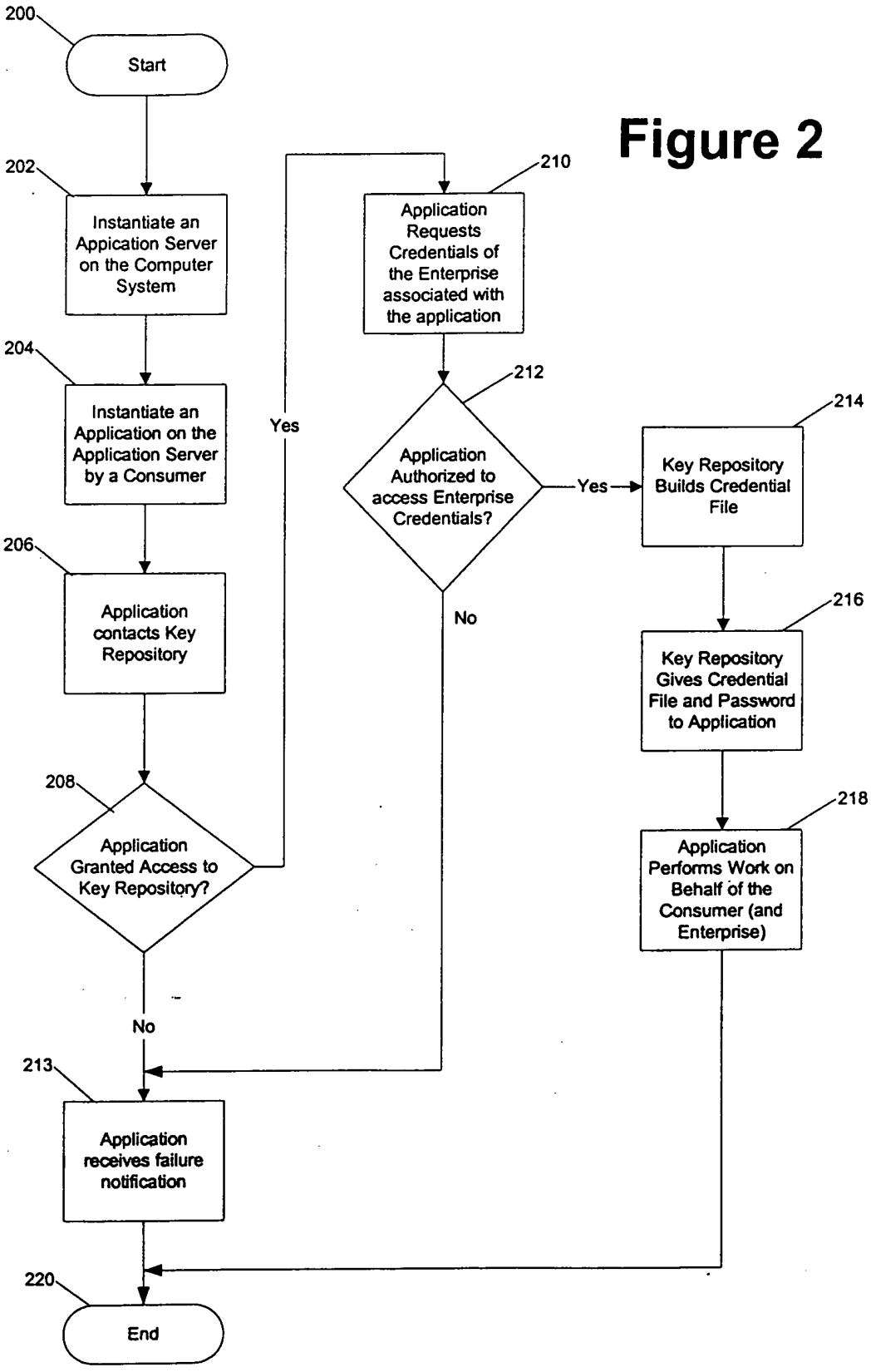

Figure 2

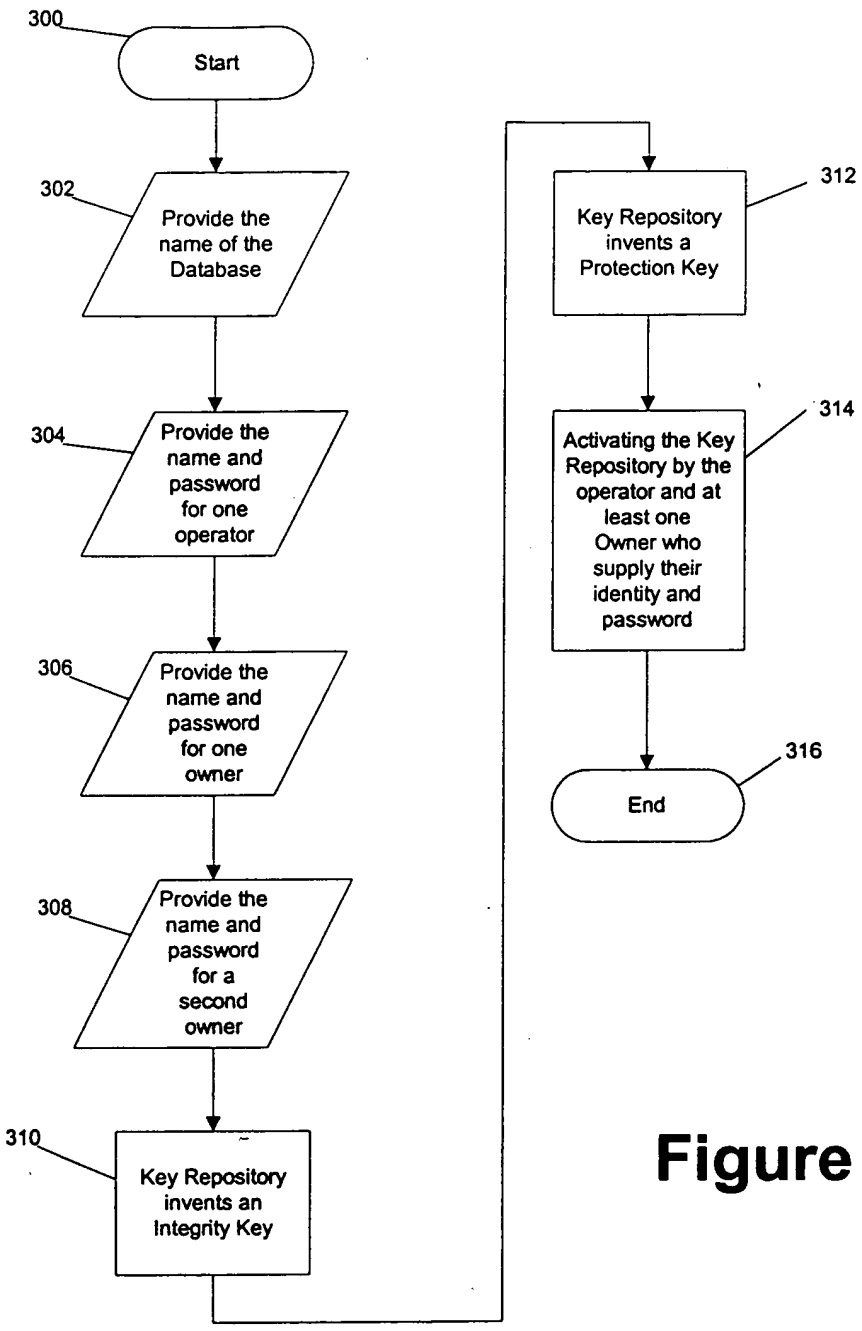
300
Start
302
Provide the name of the Database
304
Provide the name and password for one operator
306
Provide the name and password for one owner
308
Provide the name and password for a second owner
310
Key Repository invents an Integrity Key
312
Key Repository invents a Protection Key
314
Activating the Key Repository by the operator and at least one Owner who supply their identity and password
316
End

Figure 3

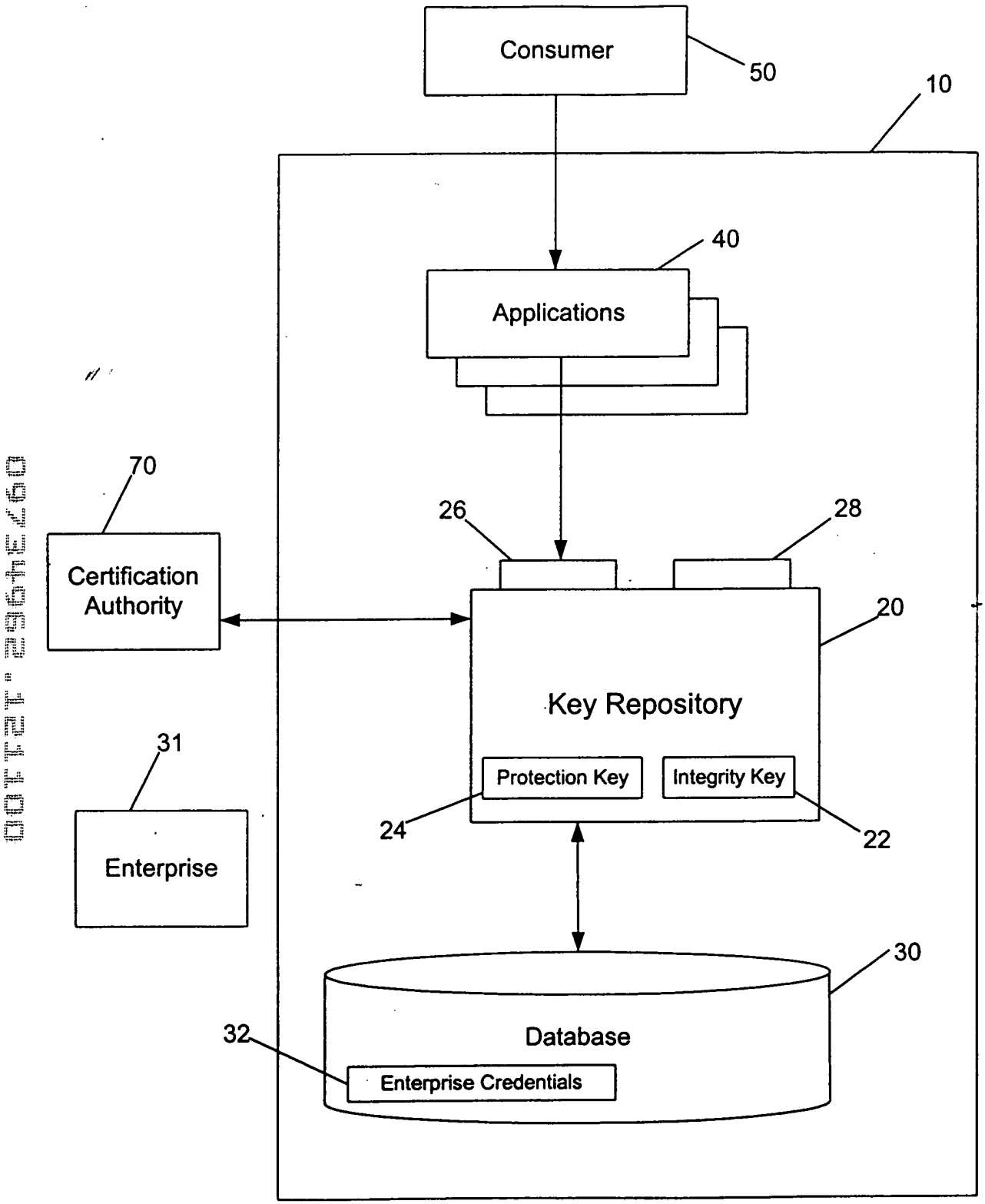
Consumer
50
10
40
Applications
70
Certification Authority
26
28
20
Key Repository
Protection Key
Integrity Key
24
22
31
Enterprise
30
Database
32
Enterprise Credentials

Figure 4

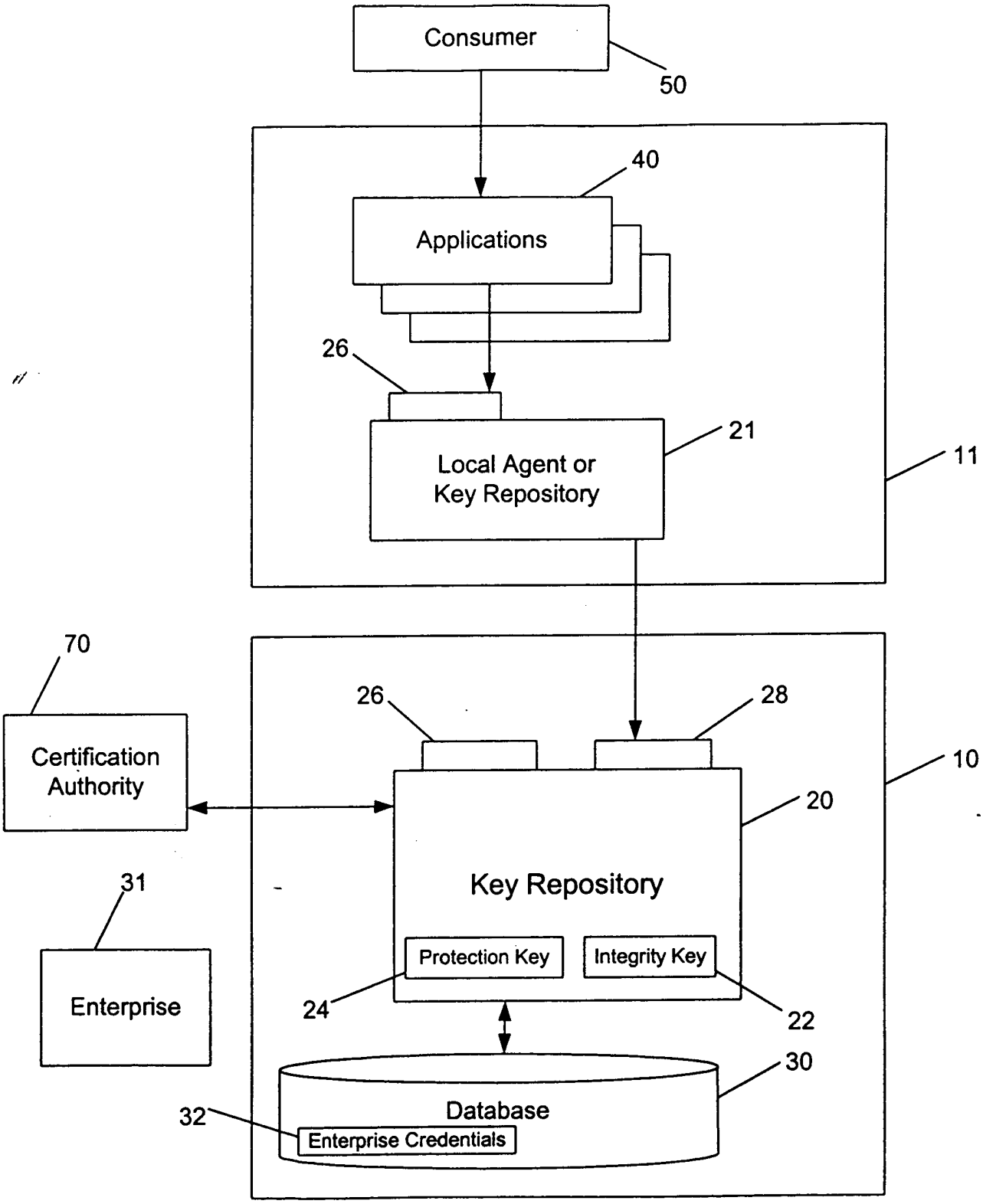
Consumer
50
40
Applications
26
21
Local Agent or
Key Repository
11
70
Certification
Authority
26
28
10
20
Key Repository
Protection Key
Integrity Key
31
Enterprise
24
22
30
Database
32
Enterprise Credentials

Figure 5

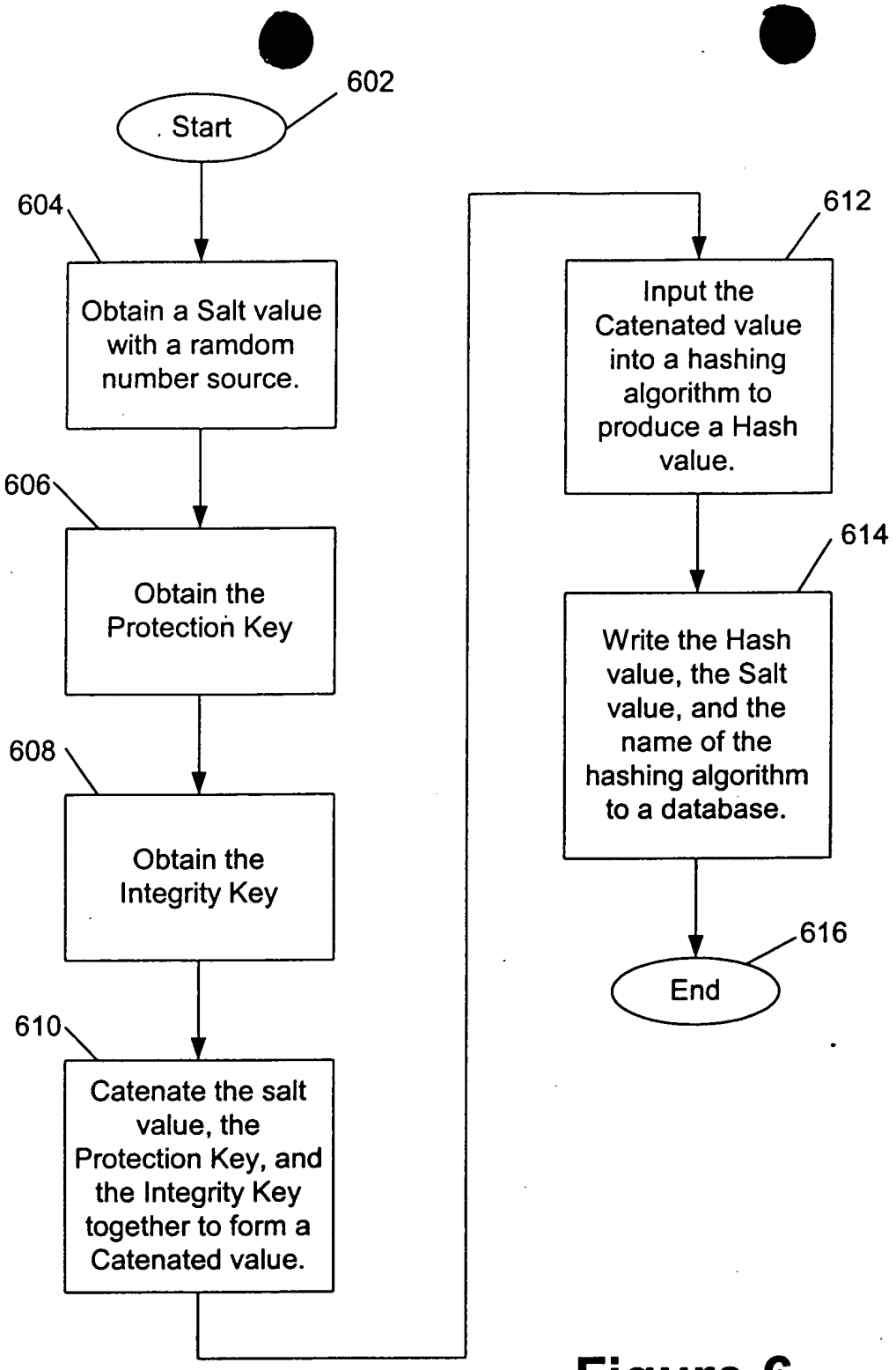
602
Start
604
Obtain a Salt value with a ramdom number source.
606
Obtain the Protection Key
608
Obtain the Integrity Key
610
Catenate the salt value, the Protection Key, and the Integrity Key together to form a Catenated value.
612
Input the Catenated value into a hashing algorithm to produce a Hash value.
614
Write the Hash value, the Salt value, and the name of the hashing algorithm to a database.
616
End

Figure 6